

"ALPINE SKI"™ UPRIGHT TABLE OF CONTENTS

| 1. | "ALPINE SKI" UPRIGHT GAME SET-UP | 3. ILLUSTRATIONS AND PART LISTS (Cont.) |
|----|---|---|
| | A. Introduction2 | Figure 13 Cabinet Assembly Upright Front View21 |
| | B. Game Inspection2 | Figure 14 Cabinet Assembly Upright Rear View22 |
| | C. Game Installation2 | Figure 15 Filter Board23 |
| | D. Dip Switch and Volume Control Settings2 | Figure 16 Power Supply24 |
| | | Figure 17 ROM Board |
| 2. | MAINTENANCE3 | Figure 18 CPU Board24 |
| | A. Cleaning3 | Figure 19 Video Board26 |
| | B. Fuse Replacement | Figure 20 Game Board28 |
| | C. Video Monitor Removal3 | Figure 21 Power Supply Schematic 1 of 131 |
| | D. Video Monitor Adjustments (Separate Manual)4 | Figure 22 ROM PC Board Schematic 1 of 132 |
| | E. Cover Glass Removal | Figure 23 CPU PC Board Schematic 1 of 3 |
| | F. Printed Circuit Board Replacement4 | Figure 24 CPU PC Board Schematic 2 of 334 |
| | | Figure 25 CPU PC Board Schematic 3 of 3 |
| 3. | ILLUSTRATIONS AND PART LISTS | Figure 26 Video PC Board Schematic 1 of 5 |
| | Figure 1 Option Switches | Figure 27 Video PC Board Schematic 2 of 5 |
| | Figure 2 Volume Control Locations | Figure 28 Video PC Board Schematic 3 of 5 |
| | Figure 3 Fuse Replacement6 | Figure 29 Video PC Board Schematic 4 of 5 |
| | Figure 4 Video Monitor Removal8 | Figure 30 Video PC Board Schematic 5 of 5 |
| | Figure 5 Cover Glass Removal | Figure 31 Game PC Board Schematic 1 of 6 |
| | Figure 6 Printed Circuit Board Replacement10 | Figure 32 Game PC Board Schematic 2 of 6 |
| | Figure 7 Incandescent Panel | Figure 33 Game PC Board Schematic 3 of 6 |
| | Figure 8 4-Way Joystick | Figure 34 Game PC Board Schematic 4 of 6 |
| | Figure 9 Control Panel | Figure 35 Game PC Board Schematic 5 of 6 |
| | Figure 10 Door Assembly | Figure 36 Game PC Board Schematic 6 of 6 |
| | Figure 11 Coin Door | Figure 37 Wiring Diagram47 |
| | Figure 12 Coin Door | |

"ALPINE SKI"™ UPRIGHT

1. GAME SET-UP

A. INTRODUCTION

"ALPINE SKI" In Alpine Ski the real enjoyment of skiing is presented by lifelike Down Hill Skiing, Slalom Racing and Ski Jump Competition. The object of the game is to manuever your Skier around snow mobiles, beginning skiers, etc., skillfully enough to gain the highest amount of points and to go on to the Slalom Course and the Jump Competition. The speed of the Skier can be controlled by depressing the Button. Skiing down the slope successfully allows a Player the chance to challenge the Slalom Course. Be careful not to knock down any poles or you will receive a penalty. Completion of the Slalom Course allows your Skier to go on to the Ski Jump. In the Jump Competition, use the Radar found on the upper portion of the screen to maximize the distance of the jump for Bonus Points. Playing time is increased when the Player reaches the specified Bonus Level.

B. GAME INSPECTION

TAITO AMERICA'S CORPORATION'S "ALPINE SKI"™ upright game is ready to play when received. However, careful inspection is necessary to insure your game is in perfect condition. Please verify the following before turning the game on.

- * Examine external parts for chips, dents, or broken parts.
- Open the service door and examine the following:
 - Plug-in connectors to make sure they are firmly seated.
 - * Speaker
 - Player Controls
 - * Printed Circuit Boards making sure there is no damage to the components.
 - Check for loose foreign objects, especially metal objects which may cause electrical problems.
 - * Fuses, making sure they are firmly in the holders.
 - Coin Mechanisms

The Video Monitor is properly adjusted before shipping. If there are any adjustments necessary refer to our Video Monitor Manual (72-00016-001).

If problems occur or technical assistance is required, contact our Customer Service Department HOT LINE Toll Free 800-323-0666 (except Illinois). Illinois phone 312 981-1000 X215.

POWER REQUIREMENTS

TAITO AMERICA CORPORATION'S "ALPINE SkI"™ upright game is shipped ready for operation at 120VAC, 60Hz with a power consumption of approximately 250 Watts.

CAUTION

For safe operation it is recommended the cabinet be grounded. This game is equipped with a three conductor power cable. The third conductor is the ground conductor and when the cable is plugged into an appropriate receptable, the game is grounded. The offset pin on the power cable's three-prong connector is the ground connection.

LOCATION SPACE REQUIREMENTS

Depth - 35" (87.5cm) Width - 24" (61cm) Height - 68" (171cm) Weight - 300 lbs. (Packaged Weight)

C. GAME INSTALLATION

The following precautions should be followed when installing the game. $% \begin{center} \end{center} \begin{center} \begin{c$

- * Avoid rough handling of the game, the picture tube is fragile.
- Install the game on a level surface.
- Avoid installing the game where it may receive excessive sunlight or heat, to prevent the game from rising internal temperature.
- * Do not install in a damp or dusty location.
- For a short time after connecting the power to the game, the picture may be temporarily distorted.

D. DIP SWITCH AND VOLUME CONTROL SETTINGS

Dip Switch A

| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------------|-----------|-----|-----|---|-----|-----|-----|-----|-----|
| Bonus Points for | 500-1500 | ON | ON | | | | | | |
| Successful Jump | 800-2000 | OFF | ON | | | | | | |
| | 1000-2500 | ON | OFF | N | | | | | |
| | 2000-4000 | OFF | OFF | 0 | | | | | |
| Game Time | 1:00 | | | Т | ON | ON | | | |
| (Minutes) | 1:30 | | | } | OFF | ON | | | |
| | 2:00 | | | U | ON | OFF | | | |
| | 2:30 | | | S | OFF | OFF | | | |
| Test | Test | | | Ε | | | ON | | |
| | Normal | | | D | | | OFF | | |
| Screen Inversion | 1P Side | | | | | | | ON | |
| | 2P | | | | | | | OFF | |
| Game Style | Table | | | | | | | | ON |
| | Upright | | | | | | | | OFF |

Dip Switch B

| | | 1 - WAY | | | | 2 - 1 | WAY | |
|-----------------|-----|---------|-----|-----|-----|-------|-----|-----|
| Play Pricing | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 Coin - 1 Play | ON | ON | | | ON | ON | | |
| 1 Coin - 2 Play | OFF | ON | ON | | OFF | UN | ON | |
| 1 Coin - 3 Play | ON | OFF | 011 | ON | ON | OFF | | ON |
| 1 Coin - 4 Play | OFF | OI, | | " | OFF | 011 | | |
| 1 Coin - 5 Play | ON | ON | | | ON | ON | | |
| 1 Coin - 6 Play | OFF | UN | | | OFF | ON | | |
| 1 Coin - 7 Play | ON | | OFF | | ON | 0.55 | OFF | |
| 1 Coin - 8 Play | OFF | OFF | | | OFF | OFF | | |
| 2 Coin - 1 Play | ON | ON | | | ON | ON | | |
| 3 Coin - 1 Play | OFF | ON | | | OFF | ON | | |
| 4 Coin - 1 Play | ON | OFF | ON | | ON | OFF | ON | |
| 5 Coin - 1 Play | OFF | UFF | | OFF | OFF | UFF | | OFF |
| 6 Coin - 1 Play | ON | - | | | ON | 011 | | |
| 7 Coin - 1 Play | OFF | ON | OFF | | OFF | ON | OFF | |
| 8 Coin - 1 Play | ON | ٥٢٢ | | | ON | ٥٢٢ | | |
| 9 Coin - 1 Play | OFF | OFF | | | OFF | OFF | | |

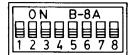
Dip Switch C

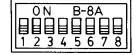
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Points to qualify | 10,000 pts. | ON | ON | | | | | | |
| For first game | 15,000 pts. | OFF | ON | | | | | | |
| Time extension | 20,000 pts. | ON | OFF | | | | | | |
| | 25,000 pts. | OFF | OFF | | | | | | |
| Points to qualify | 5,000 pts. | | | ON | ON | ON | | | |
| For additional | 6,000 pts. | | | OFF | ON | ON | | | |
| 2nd game time | 7,000 pts. | | | ON | OFF | ON | | | |
| Extension | 8,000 pts. | | | OFF | OFF | ON | | | |
| | 9,000 pts. | | | ON | ON | OFF | | | |
| | 10,000 pts. | | | OFF | ON | OFF | | | |
| | 11,000 pts. | | | ON | OFF | OFF | | | |
| | 12,000 pts. | | | OFF | OFF | OFF | | | |
| Display of Year | YES | | | | | | OFF | | |
| | NO | | | | | | ON | | |
| No Hit | No Hit | | | | | | | OFF | |
| | Normal | | | | | | | ON | |
| Coin System | 2 Way | | | | | | | | OFF |
| | 1 Way | | | | | | | | ON |

OPTION SWITCHES FIGURE 1

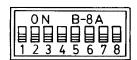
SWA

SWB

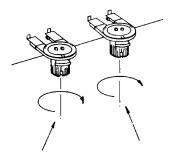




SWC



VOLUME CONTROL LOCATIONS FIGURE 2



VOLUME CONTROL SETTING

The Volume increases by turning the potentiometer as indicated in Figure 2.

2. MAINTENANCE

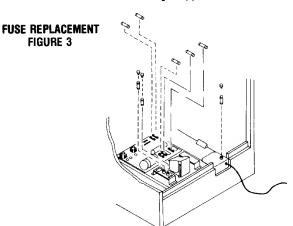
All games require a certain amount of maintenance to keep them in good condition. A periodic check of mechanical controls would be beneficial to guarantee your game will be profitable.

A. CLEANING

The exterior of the game, all metal parts and all plastic parts can be cleaned with an non-abrasive cleanser. Caution should be used when cleaning the plastic, a dry cloth can cause scratches and result in a foggy appearance.

B. FUSE REPLACEMENT

This game contains 8 fuses. Seven of these fuses can be found on the Power Supply Assembly, five (5) are on the PCB and two (2) are on the Power Supply Bracket. One (1) is located at the bracket where the AC line cord comes into the cabinet. See Figure () for location of these fuses.



C. VIDEO MONITOR REMOVAL

If you need to remove the Video Monitor, follow the Instructions listed below.

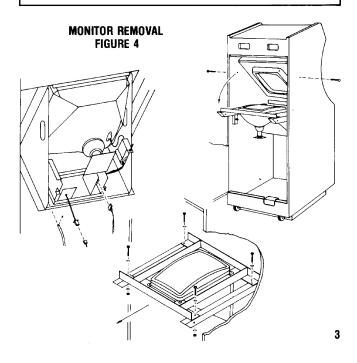
CAUTION

It is recommended the game be left disconnected for at least one hour before removing the Video Monitor. This will probably discharge the Video Tube but EXTREME CAUTION is still necessary.

- * Disconnect power from the line voltage.
- * Disconnect the Monitor cable connector.
- * Remove the wire cable clamp.
- * Take out the two side bolts, one on each side of the cabinet.
- Remove the four mounting bolts and disconnect the green ground wire.
- * Slide the Monitor out by pulling the Monitor toward you.

CAUTION

Use extreme caution and do not touch electrical parts of the Monitor Yoke area with your hands or with any metal object in your hands! High voltages may exist in any Monitor, even with power disconnected.



D. VIDEO MONITOR ADJUSTMENTS

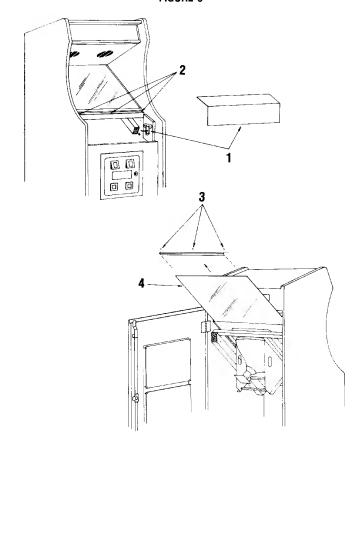
TAITO AMERICA CORPORATION presently uses either a Wells-Gardner or an Electrohome 19" color monitor in the "ALPINE SKI"TM game. Refer to Monitor Manual (72-00016-001) for your specific Video Monitor. Be sure to heed all the WARNINGS AND CAUTION INSTRUCTIONS provided before repairing or replacing your Video Monitor.

E. COVER GLASS REMOVAL

To remove the Cover Glass follow the Instructions listed below:

- 1. Remove the control Panel.
- 2. Loosen three (3) screws on the Cover Glass, front bracket.
- 3. Open Service Door and remove the (Rear) Cover Glass Bracket.
- 4. Slide glass out through the Service Door.

COVER GLASS REMOVAL FIGURE 5



F. PRINTED CIRCUIT BOARD REPLACEMENT

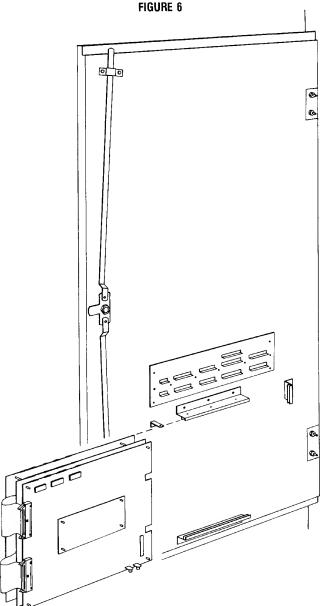
You may wish to remove the "ALPINE SKI"™ Printed Circuit Boards for servicing. Refer to Figure 6.

for servicing. Refer to Figure 6.
The "ALPINE SKI" Printed Circuit Boards are located on the inside of the Rear Service Door for easy access.

To remove the boards the following steps should be followed:

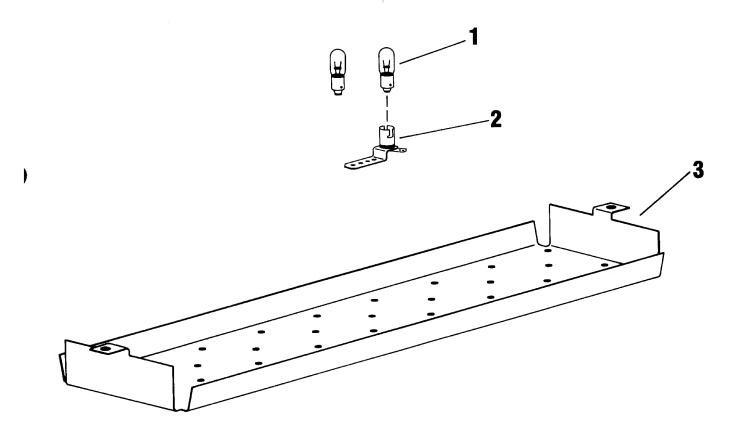
- Open the rear service door, the power will automatically be removed by the Interlock Switch located on the inside of the door frame
- 2. Disconnect the connector G, H, and T from the boards.
- Loosen and turn the Stop Bracket and pull the boards toward you out of the board guides.

PRINTED CIRCUIT BOARD REPLACEMENT



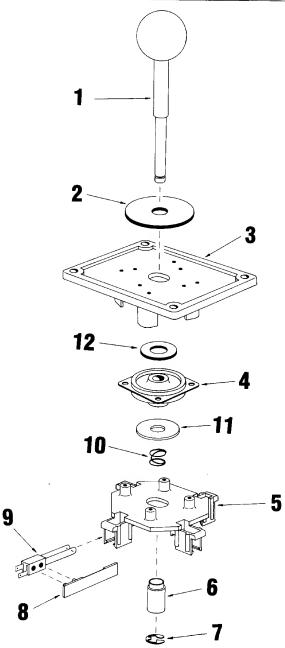
INCANDESCENT PANEL

| ITEM | TAITO PART NO. | DESCRIPTION |
|------|-------------------|------------------------|
| 1 | 27-00006-001 | Lamp #47 |
| 2 | 26B00009-001 | Bayonet Base Socket |
| 3 | 26B00009-001 | Marquee Lighting Plate |



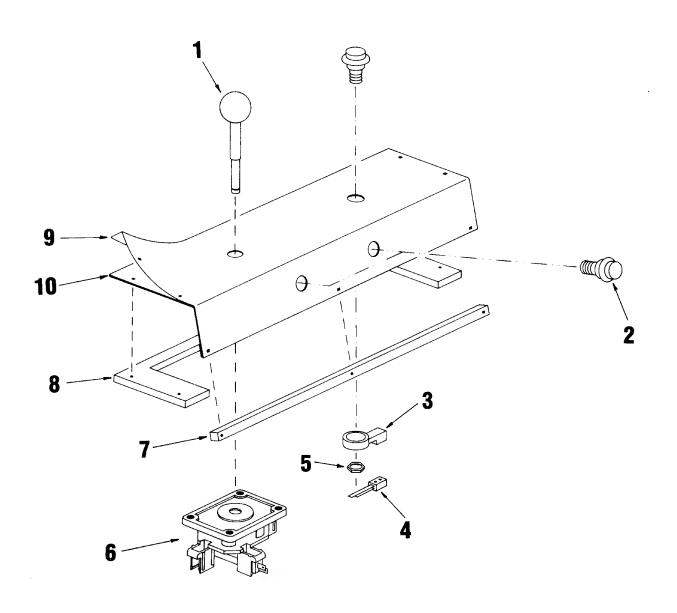
2-WAY JOYSTICK

| ITEM | TAITO PART NO. | DESCRIPTION |
|------|-------------------|-----------------|
| 1 | 63B00071-001 | Ball & Shaft |
| 2 | 63A00074-001 | Mask |
| 3 | 63C00069-001 | Mounting Plate |
| 4 | 62C00004-001 | Shock Mount Pad |
| 5 | 63C00070-001 | Switch Plate |
| 6 | 63A00075-001 | Actuator |
| 7 | 59B00020-017 | "E" Ring |
| 8 | 63A00072-001 | Switch Spacer |
| 9 | 29B00033-001 | Leaf Switch |
| 10 | 58A00006-001 | Spring |
| 11 | 61A00227-001 | Spacer |
| 12 | 63A00073-001 | Spacer, Plastic |



CONTROL PANEL

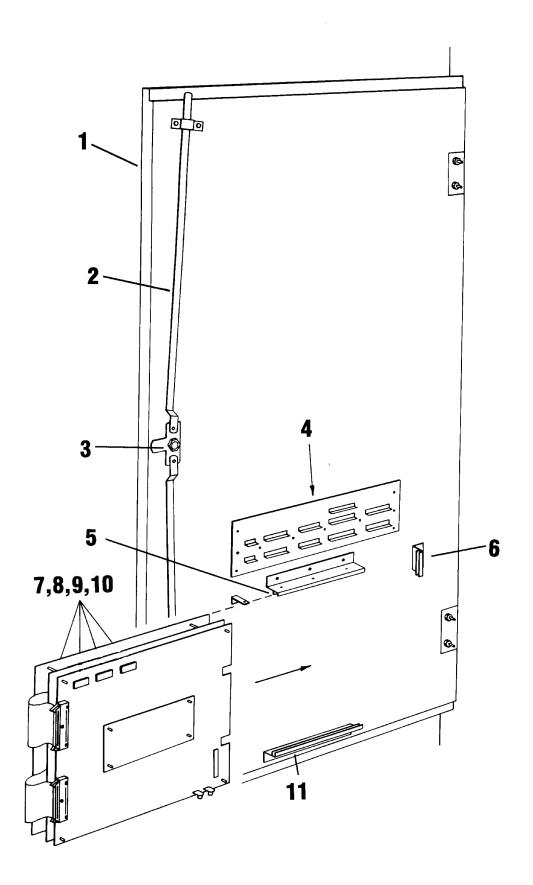
| ITEM | TAITO PART NO. | DESCRIPTION |
|------|-------------------|----------------------|
| 1 | 63B00031-004 | Ball & Shaft |
| 2 | 63B00024-001 | Push Button White |
| 3 | 63-00025-001 | Switch Support |
| 4 | 29B00020-001 | Switch, Push Button |
| 5 | 54A07001-008 | Nut, Stamped %-11 |
| 6 | 63D00067-001 | 2-Way Control |
| 7 | 42B00108-001 | Cleate Wood |
| 8 | 42D00017-001 | Control Panel Wood |
| 9 | 63D00066-001 | Lexan Decal |
| 10 | 07M00224-001 | Control Panel, Metal |



DOOR ASSEMBLY

| ITEM | TAITO PART NO. | DESCRIPTION |
|------|-------------------|---------------------|
| 1 | 42D00128-001 | Rear Door |
| 2 | 61A00111-001 | Bracket, Lock Rod |
| 3 | 04-00037-002 | Lock Kit |
| 4 | 08-00017-001 | Filter P.C.B. |
| 5 | 63B00077-001 | Board Guide |
| 6 | 61A00014-001 | "L" Bracket |
| 7 | 08-00028-002 | Game P.C.B. |
| 8 | 08-00028-003 | CPU P.C.B. |
| 9 | 08-00028-004 | Video P.C.B. |
| 10 | 08-00028-005 | ROM P.C.B. |
| 11 | 61-00228-001 | Bracket, P.C. Board |

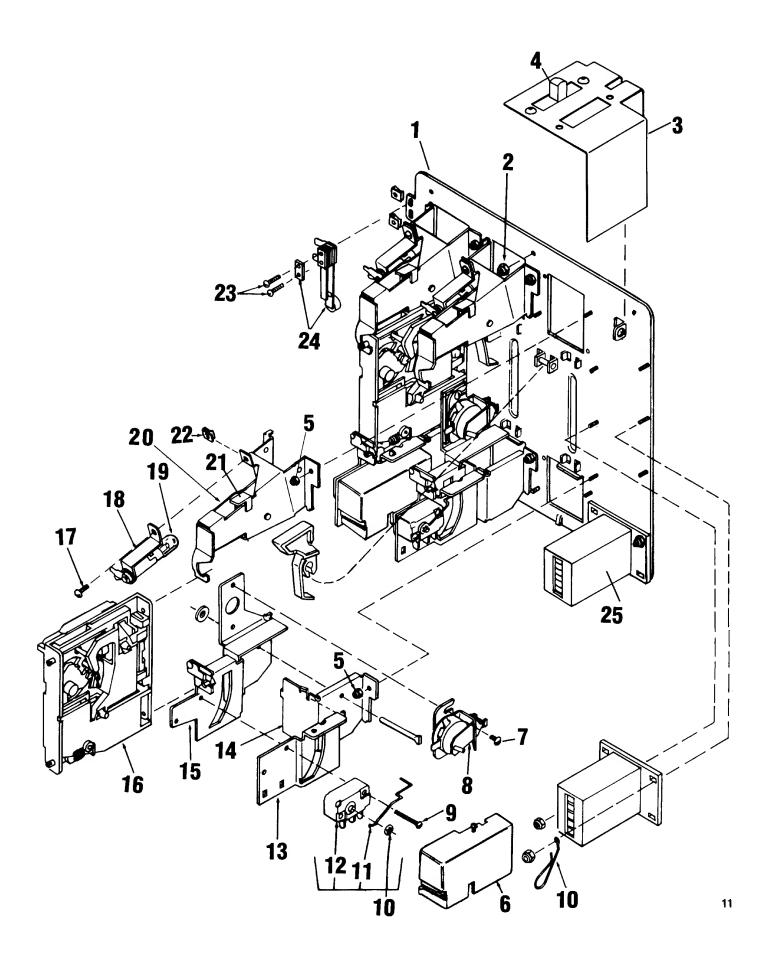
DOOR ASSEMBLY FIGURE 10



COIN DOOR

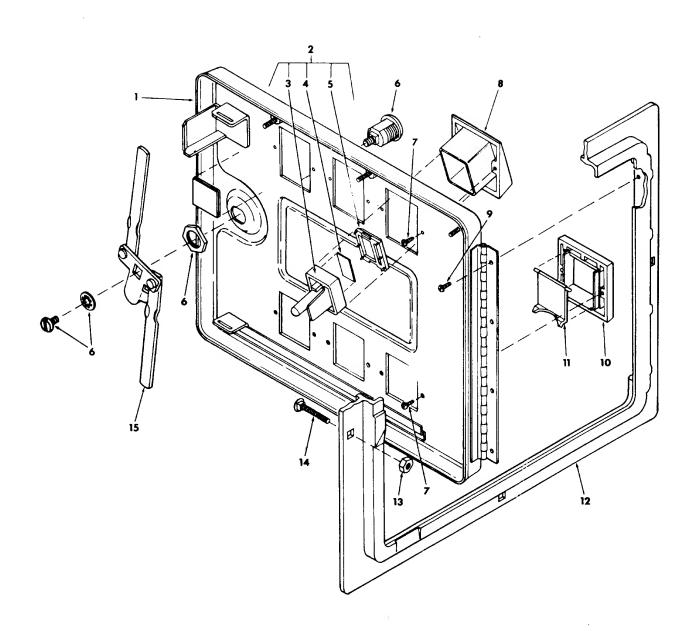
| ITEM | TAITO PART NO. | DESCRIPTION | REFERENCE |
|------|-------------------|--|-----------|
| 1 | 07-00027-001 | Inner Panel With Levers Sub Assembly | 404429 |
| 2 | 54-03013-001 | Nut #8-32 | 400-8 |
| * | 09-00017-001 | Custom Harness Assembly (SHL Coin) | |
| * | 09-00017-002 | Custom Harness Assembly (Dual Coin) | |
| 3 | 61B00113-001 | Service Switch Bracket | |
| 4 | 29-00022-001 | Service Switch | |
| 5 | 54-03011-001 | Nut #4-40 | |
| 6 | 63-00014-001 | Switch Cover | 904762 |
| 7 | 51-02052-001 | Screw #6-32 x ³ / ₁₆ SS ph | 100-6-3 |
| 8 | 23-00001-001 | C.R.E.M. Coil Assembly | 404354 |
| 9 | 51-02052-001 | Screw #6-32 x ³ / ₁₆ SS ph | 100-4-12 |
| 10 | 59-00019-001 | Retainer | 900651 |
| 11 | 28-00029-001 | Silver Switch Wire for U.S. 25¢ | 904710-1 |
| 12 | 29-00007-001 | Switch | 904845 |
| 13 | 61-00044-001 | Coin Chute | 904701 |
| 14 | 61-00045-001 | Coin Return Box | 904598 |
| 15 | 61-00025-001 | Switch & C.R.E.M. Coil Bracket | 404428 |
| 16 | 59-00018-001 | 25¢ Acceptor | 5301-10 |
| 17 | 51-02051-006 | Screw 4-40 x % SS ph | 110-4-6 |
| 18 | 27-00003-001 | Miniature Bayonet Base Lamp | 904717 |
| * | 26-00006-001 | Lamp Socket | |
| 19 | 27-00003-001 | #47 Lamp (6.3 Volt) | 904716 |
| 20 | 61-00048-001 | Coin Inlet Chute | 904418 |
| 21 | 61-00047-001 | Right Half of Coin Inlet Chute | 904594 |
| 22 | 54-00001-001 | "U" Type Fastener | 904712 |
| 23 | 51-02051-006 | Screw 4-40 x ½ SS ph | 116-4-8 |
| 24 | 29-00006-001 | Slam Switch Assembly | 904704 |
| 25 | 998325 | Coin Meters | |

^{*}Item not shown on drawing.



COIN DOOR

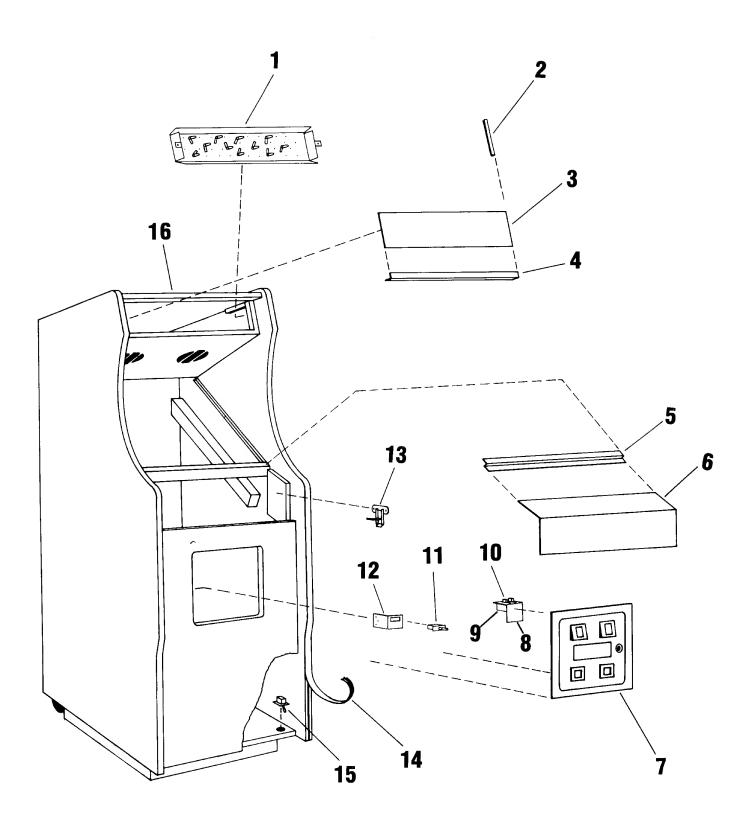
| ITEM | TAITO PART NO. | DESCRIPTION | REFERENCE |
|------|-------------------|---|-----------|
| 1 | 61-00042-001 | Coin Door Only (2 Coin) | 404341 |
| 2 | 07-00023-001 | Coin Return Button Assembly For U.S. 25¢ Coin | 404348-1 |
| 3 | 63-00015-001 | Coin Return Button | 904591 |
| 4 | 79-50004-001 | U.S. 25° Price Decal | 904703 |
| 5 | 63-00016-001 | Coin Return Button Cover for U.S. 25° Coin | |
| 6 | 07-00025-001 | Lock Assembly | 904707-1 |
| 6A | 07-00025-001 | Lock Assembly | 904707-1 |
| 7 | 51-01051-003 | Screw #4 x 5/16 SL ph Type B | 345-4-5 |
| 7A | 51-01051-003 | Screw #4 x 5/16 SL ph Type B | 345-4-5 |
| 8 | 63-00011-001 | Coin Button Housing | 904588 |
| 9 | 51-02051-002 | Screw #4-40 x 1/4 SL ph | 325-4-4 |
| 10 | 63-00012-001 | Coin Return Bezel | 904590 |
| 11 | 63-00013-001 | Coin Return Cover | 904599 |
| 12 | 61-00040-001 | Coin Door Frame 11% x 13% | 904581 |
| | | Mounts in a 10% x 123/16 Opening | |
| 13 | 54-01005-001 | Hex Nut 1/4-20 | 406-416 |
| 14 | 51A03003-113 | Carriage Bolt | 904734 |
| 15 | 07-00026-001 | Lock Arm Assembly | 404357 |



CABINET ASSEMBLY UPRIGHT FRONT VIEW

| ITEM | TAITO PART NO. | DESCRIPTION |
|------|-------------------|-----------------------------|
| 1 | 07M00055-001 | Incandescent Panel |
| 2 | 63B00006-001 | "U" Channel Bracket |
| 3 | 47M00012-004 | Marquee |
| 4 | 61C00115-001 | Marquee Retaining Bracket |
| 5 | 61D00012-001 | Lower Cover Glass Bracket |
| 6 | 07M00121-001 | Control Panel Assembly |
| 7 | 07-00114-001 | Coin Door |
| 8 | 61B00113-001 | Switch Bracket |
| 9 | 07M00118-001 | Service Switch Assembly |
| 10 | 29-00022-001 | Slide, Center Return Switch |
| 11 | 29B00015-001 | Interlock Switch |
| 12 | 61C00201-001 | Interlock Switch Bracket |
| 13 | 59-00008-001 | Latching Clamp |
| 14 | 63B00002-004 | "T" Molding |
| 15 | 29A00023-001 | Power ON/OFF Switch |
| 16 | 41D00009-004 | Finish Cabinet |

CABINET ASSEMBLY UPRIGHT FRONT VIEW

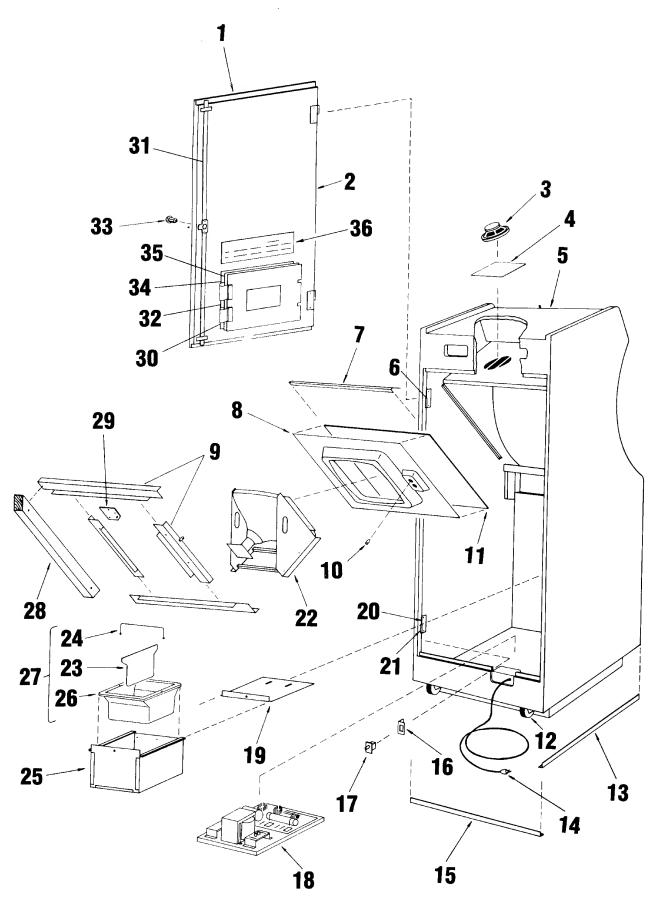


CABINET ASSEMBLY UPRIGHT REAR VIEW

| ITEM | TAITO PART NO. | DESCRIPTION . |
|------|-------------------|--------------------------------|
| 1 | 42D00069-001 | Door & Board Mounting Assembly |
| 2 | 42D00016-001 | Door Panel |
| 3 | 21C00003-001 | Speaker 6" round |
| 4 | 61B00027-001 | Speaker Grill |
| 5 | 41D00009-004 | Finish Cabinet |
| 6 | 61B00057-001 | Leaf Hinge |
| 7 | 61C00006-001 | Upper Cover Bracket |
| 8 | 63C00035-001 | Monitor Shroud |
| 9 | 61C00080-001 | Monitor Mounting Bracket |
| 10 | 27-00006-001 | #47 Bulb, Lighted Instr. |
| 11 | 47M00013-004 | Cover Glass |
| 12 | 44C00001-001 | Wheels |
| 13 | 63C00005-004 | "Leaf" Molding |
| 14 | 07M00042-001 | A/C Line Cord |
| 15 | 63C00005-022 | "L" Molding |
| 16 | 61B00030-002 | Interlock Bracket |
| 17 | 29B00015-001 | Interlock Switch |
| 18 | 07M00039-001 | Power Supply |
| 19 | 61C00054-001 | Cash Box Lid |
| 20 | 61B00056-001 | Leaf Hinge |
| 21 | 61A00055-001 | Hinge Pin |
| 22 | 31-00006-001 | 19" Color Monitor |
| 23 | 63-00019-001 | Cash Tray Separator |
| 24 | 61-00039-001 | Cash Tray Handle |
| 25 | 61C00060-001 | Cash Box |
| 26 | 63-00010-001 | Cash Tray (Only) |
| 27 | 07M00054-001 | Cash Tray Assembly |
| 28 | 42C00013-001 | Monitor Support Cleat |
| 29 | 61C00086-001 | Corner Bracket |
| 30 | 08-00028-002 | Game P.C.B. |
| 31 | | Lock Rod Assembly |
| 32 | 08-00028-004 | Video P.C.B. |
| 33 | 04M00037-002 | Lock Kit |
| 34 | 08-00028-003 | CPU P.C.B. |
| 35 | 08-00028-005 | ROM P.C.B. |
| 36 | 08-00017-001 | Filter P.C.B. |

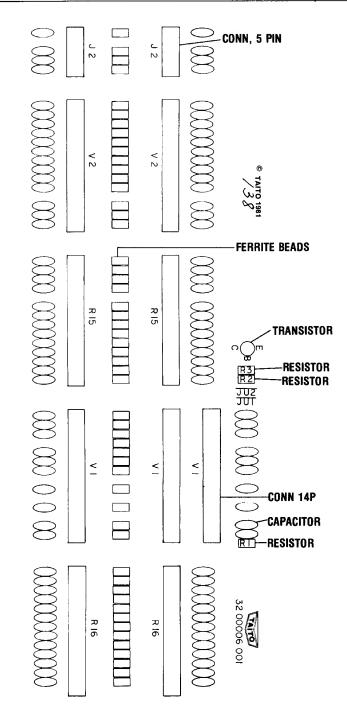
CABINET ASSEMBLY UPRIGHT REAR VIEW





FILTER BOARD

| ITEM | TAITO PART NO. | DESCRIPTION | QUANITY |
|------|-------------------|-----------------------------|---------|
| 1 | 12-10003-471 | Cap, 470pf ± 10% Axial Lead | 74 |
| 2 | 17-00001-001 | Ferrite Bead Assembly | 42 |
| 3 | 25-00002-014 | Connector 14P | 9 |
| 4 | 25-00002-005 | Connector 5P | 2 |
| 5 | 14-23904-001 | Transistor NPN 2N3904 | 1 |
| 6 | 11-00001-102 | Resistor 1K ohm ¼W | 1 |
| 7 | 11-00001-332 | Resistor 3.3F ohm ¼W | 2 |
| 8 | 63B00068-001 | Stand Off | 6 |



POWER SUPPLY

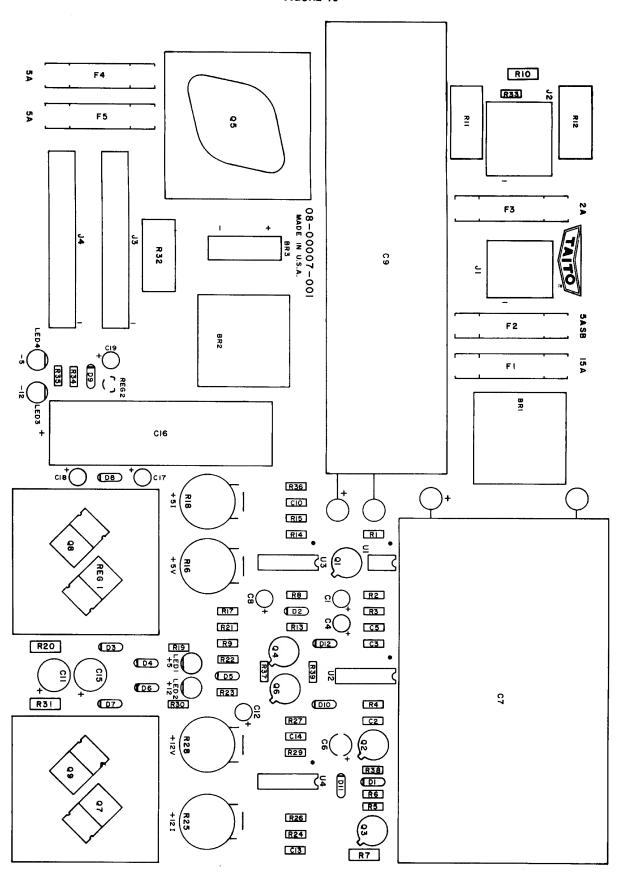
| SYM | TAITO PART NO. | DESCRIPTION |
|-----|-------------------|-------------------------------|
| R1 | 11-00001-102 | Resistor 1.0K 5% 1/4W 5% |
| R2 | 11-00001-512 | Resistor 5.1K ¼W 5% |
| R3 | 11-00001-183 | Resistor 18K 1/4W 5% |
| R4 | 11-00001-224 | Resistor 220K ¼W 5% |
| R5 | 11-00001-472 | Resistor 4.7K ¼W 5% |
| R6 | 11-00001-222 | Resistor 2.2K ¼W 5% |
| R7 | 11-10001-101 | Resistor 100 ¼W 5% |
| R8 | 11-00001-102 | Resistor 10K ¼W 5% |
| R9 | 11-00001-472 | Resistor 4.7K 1/4W 5% |
| R10 | 11-10001-101 | Resistor 100 1/2W 5% |
| R11 | 11-30001-015 | Resistor .15 4W 5% |
| R12 | 11-30001-015 | Resistor .15 4W 5% |
| R13 | 11-00001-472 | Resistor 4.7K 1/4W 5% |
| R14 | 11-00001-222 | Resistor 2.2K ¼W 5% |
| R15 | 11-00001-222 | Resistor 2.2K 1/4W 5% |
| R16 | 11-60001-252 | Pot 2.5K ¼W 20% |
| R17 | 11-00001-222 | Resistor 2.2K ¼W 5% |
| R18 | 11-60001-102 | Pot 1.0K 1/4W 20% |
| R19 | 11-00001-511 | Resistor 510 ¼W 5% |
| R20 | 11-10001-470 | Resistor 47 ½W 5% |
| R21 | 11-00001-162 | Resistor 1.6K 1/4W 5% |
| R22 | 11-00001-103 | Resistor 10K 1/4W 5% |
| R23 | 11-00001-472 | Resistor 4.7K 1/4W 34 |
| R24 | 11-00001-222 | Resistor 2.2K ¼W 5% |
| R25 | 11-60001-102 | Pot 1.0K 1/4W 5% |
| R26 | 11-00001-472 | Resistor 407K ¼W 5% |
| R27 | 11-00001-222 | Resistor 2.2K ¼W 5% |
| R28 | 11-60001-252 | Pot 2.5K ¼W 20% |
| R29 | 11-00001-472 | Resistor 4.7K 1/4W 5% |
| R30 | 11-00001-122 | Resistor 1.2K 1/4W 5% |
| R31 | 11-10001-470 | Resistor 47 1/4W 5% |
| R32 | 11-30001-015 | Resistor .15 4W 5% |
| R33 | 11-00001-222 | Resistor 2.2K ¼W 5% |
| R34 | 11-00001-122 | Resistor 1.2K 1/4W 5% |
| R35 | 11-00001-511 | Resistor 510 ¼W 5% |
| R36 | 11-00001-222 | Resistor 2.2K 1/4W 5% |
| R37 | 11-00001-104 | Resistor 100K |
| R38 | 11-00001-103 | Resistor 10K 1/4W 5% |
| R39 | 11-00001-224 | Resistor 220L ¼W 5% |
| C1 | 12-30001-225 | Capacitor, Tantalum 2.2uf 25V |
| C2 | 12-10004-103 | Capacitor, Ceramic .01uf |
| C3 | 12-10004-103 | Capacitor, Ceramic .01uf |
| C4 | 12-30001-105 | Capacitor, Tantalum 1.uf 35V |

| SYM | TAITO PART NO. | DESCRIPTION |
|------|-------------------|----------------------------------|
| C5 | 12-10001-102 | Capacitor, .001uf |
| C6 | 12-30001-106 | Capacitor, Tantalum 10uf |
| C7 | 12-20003-509 | Capacitor, Electrolytic 50,000uf |
| C8 | 12-30001-105 | Capacitor, Tantalum 1.uf 35V |
| C9 | 12-20003-209 | Capacitor, Electrolytic 20,000uf |
| C10 | 12-10001-332 | Capacitor, Ceramic .0033uf |
| C11 | 12-30001-476 | Capacitor, Tantalum 47uf |
| C12 | 12-30001-105 | Capacitor, Tantalum 1.uf 35V |
| C13 | 12-10004-103 | Capacitor, Ceramic .01uf |
| C14 | 12-10001-102 | Capacitor, .001uf |
| C15 | 12-30001-476 | Capacitor, Tantalum 47uf |
| C16 | 12-20002-108 | Capacitor, Electrolytic 1,000uf |
| C17 | 12-30001-225 | Capacitor, Tantalum 2.2uf 25V |
| C18 | 12-30001-225 | Capacitor, Tantalum 2.2uf 25V |
| C19 | 12-30001-105 | Capacitor, Tantalum 1.uf 35V |
| F1 | 24-00003-010 | 10A Fuse |
| F2 | 24-00003-010 | 10A Fuse |
| F3 | 24-00003-003 | Fuse, 2A |
| F4 | 24-00003-004 | Fuse, 4A |
| F5 | 24-00003-004 | Fuse, 4A |
| BR1 | 13-00100-025 | Diode Bridge 25A, 100V |
| BR2 | 13-00100-012 | Diode Bridge 12A, 100V |
| BR3 | 13-00100-002 | Diode Bridge 2A, 100V |
| D1 | 13-14002-001 | Diode IN4002 |
| D2 | 13-14002-001 | Diode IN4002 |
| D3 | 13-10752-001 | Diode, Zener IN752 |
| D4 | 13-14002-001 | Diode IN4002 |
| D5 | 13-14002-001 | Diode IN4002 |
| D6 | 13-14002-001 | Diode IN4002 |
| D7 | 13-10964-001 | Diode, Zener IN964 |
| D8 | 13-14002-001 | Diode IN4002 |
| D9 | 13-14002-001 | Diode IN4002 |
| D10 | 13-14002-001 | Diode IN4002 |
| D11 | 13-14002-001 | Diode IN4002 |
| D12 | 13-14002-001 | Diode IN4002 |
| LED1 | 13-00001-001 | LED (Red) |
| LED2 | 13-00001-001 | LED (Red) |
| LED3 | 13-00001-001 | LED (Red) |
| LED4 | 13-00001-001 | LED (Red) |
| U1 | 15-62500-001 | Opto Coupler H11AA2 |
| U2 | 15-50556-001 | Timer (Dual) 556 |
| U3 | 15-50723-001 | Voltage Regulator 723 |
| U4 | 15-50723-001 | Voltage Regulator 723 |

POWER SUPPLY

| SYM | TAITO PART NO. | DESCRIPTION |
|------|-------------------|-----------------------------|
| REG1 | 15-57912-001 | Voltage Regulator 7912 |
| REG2 | 15-57905-001 | Voltage Regulator 79L05 |
| Q1 | 14-22905-001 | Transistor 2N2905 |
| Q2 | 14-22905-001 | Transistor 2N2905 |
| Q3 | 14-22905-001 | Transistor 2N2905 |
| Q4 | 14-22905-001 | Transistor 2N2905 |
| Q5 | 14-23055-001 | Transistor 2N3055 |
| Q6 | 14-22905-001 | Transistor 2N2905 |
| Q7 | 14-20030-001 | Transistor TIP-30A |
| Q8 | 14-26401-001 | SCR 2N6401 |
| Q9 | 14-26401-001 | SCR 2N6401 |
| J1 | 25-00022-006 | Connector, 1-380999-0 6Pin |
| J2 | 25-00022-008 | Connector, 350212-1 8Pin |
| J3 | 25-00002-014 | Connector, 09-60-1141 14Pin |
| J4 | 25-00002-014 | Connector, 09-60-1140 14Pin |
| | 24-10001-001 | Fuse Clips |
| | 30-00220-002 | Heat Sink Dual To-220 |
| | 30-00003-001 | Heat Sink Single To-3 |

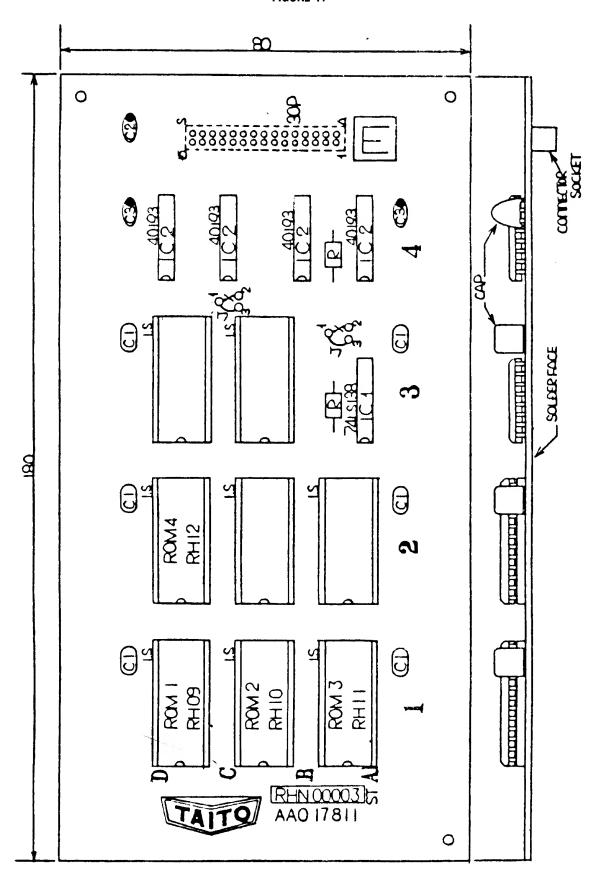
POWER SUPPLY COMPONENT LAYOUT



ROM BOARD

| ITEM | SYM | TAITO PART NO. | DESCRIPTION |
|------|-------|-------------------|----------------------------|
| 1 | | | ROM PC BOARD |
| 2 | | | NOT USED |
| 3 | 30P | 99-AA055161 | CONNECTOR SOCKET HKP-30FD |
| 4 | 18 | 99-AA055787 | IC - SOCKET 24P |
| 5 | | | NOT USED |
| 6 | IC1 | 99-AAT33096 | LS - IC 74LS138 |
| 7 | IC2 | 99-AAT36071 | CMOS 40193 |
| 8 | ROM 1 | 99-RH090409 | PROM (2732) RH09 |
| 9 | ROM 2 | 99-RH090410 | PROM (2732) RH10 |
| 10 | ROM 3 | 99-RH090411 | PROM (2732) RH11 |
| 11 | ROM 4 | 99-RH090412 | PROM (2732) RH12 |
| 12 | | | NOT USED |
| 13 | | | NOT USED |
| 14 | | | NOT USED |
| 15 | | | NOT USED |
| 16 | | | NOT USED |
| 17 | C1 | 99-AAT41244 | CAP, FILM TDY-1H-104 |
| 18 | C2 | 99-AAT41430 | CAP, TANTALUM SSG25-10F |
| 19 | C3 | 99-AAT41436 | CAP, TANTALUM SSG35-1F |
| 20 | R | 99-AAT51765 | RES, CARBON 1 KOHM 1/4W 5% |
| 21 | J | 99-AA062637 | TINNED COPPER WIRE 10 |
| 22 | | | NOT USED |
| 23 | S1 | 99-RH070203 | PC BOARD STICKER RHN00003 |

ROM PC BOARD LAYOUT

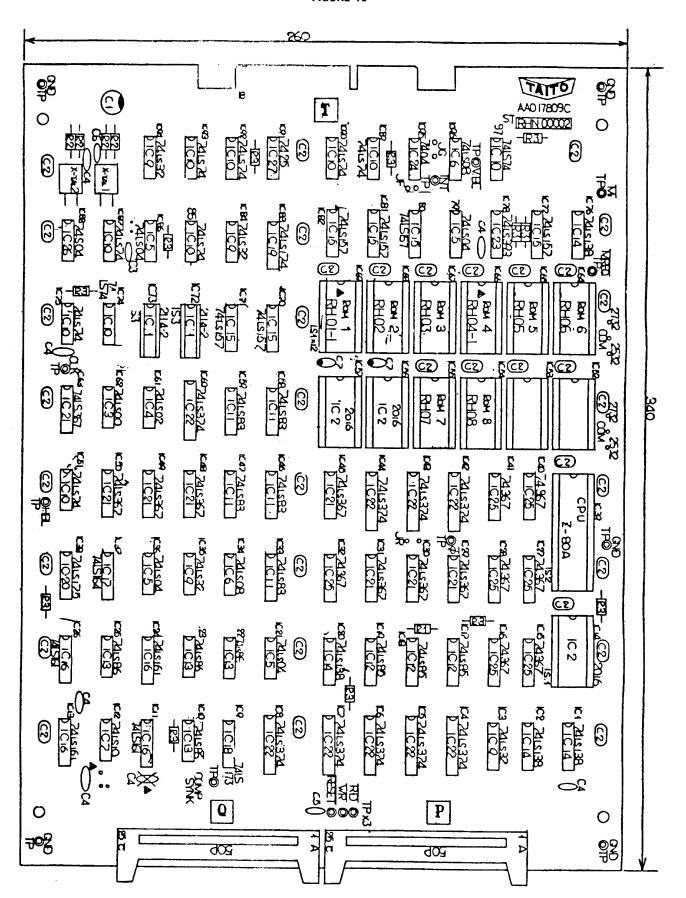


CPU BOARD

| Γ | γ | TAITO | |
|------|--------|-------------|---------------------------|
| ITEM | SYM | PART NO. | DESCRIPTION |
| 1 | | | CPU BOARD |
| 2 | ST | 99-RH070202 | PC BOARD STICKER RHN00002 |
| 3 | 50P | 99-AA055310 | ANGLE PIN HEADER PS-50P |
| 4 | 1S1 | 99-AA055787 | IC - SOCKET 24P |
| 5 | 1S2 | 99-AA055812 | IC - SOCKET 40P |
| 6 | 1P | 99-AA056551 | TEST POINT |
| 7 | XTAL 2 | 99-AA069605 | X-TAL 12MHZ |
| 8 | XTAL 1 | 99-AA069608 | X-TAL 8MHZ |
| 9 | 1S3 | 99-AA055103 | IC - SOCKET 18P |
| 10 | | | NOT USED |
| 11 | IC1 | 99-AAT32163 | STATIC RAM 2114-7 |
| 12 | IC2 | 99-AAT32178 | STATIC RAM TMM2016P |
| 13 | IC3 | 99-AAT33001 | LS-IC 74LS00 |
| 14 | IC4 | 99-AAT33003 | LS-IC 74LS02 |
| 15 | IC5 | 99-AAT33005 | LS-IC 74LS04 |
| 16 | IC6 | 99-AAT33009 | LS-IC 74LS08 |
| 17 | IC7 | 99-AAT33011 | LS-IC 74LS10 |
| 18 | | | NOT USED |
| 19 | IC9 | 99-AAT33027 | LS-IC 74LS32 |
| 20 | IC10 | 99-AAT33051 | LS-IC 74LS74 |
| 21 | IC11 | 99-AAT33059 | LS-IC 74LS83 |
| 22 | IC12 | 99-AAT33061 | LS-IC 74LS85 |
| 23 | IC13 | 99-AAT33062 | LS-IC 74LS86 |
| 24 | IC14 | 99-AAT33096 | LS-IC 74LS138 |
| 25 | IC15 | 99-AAT33112 | LS-IC 74LS157 |
| 26 | IC16 | 99-AAT33116 | LS-IC 74LS161 |
| 27 | IC17 | 99-AAT33119 | LS-IC 74LS164 |
| 28 | IC18 | 99-AAT33126 | LS-IC 74LS173 |
| 29 | IC19 | 99-AAT33127 | LS-IC 74LS174 |
| 30 | IC20 | 99-AAT33128 | LS-IC 74LS175 |

| ITEM | SYM | TAITO PART NO. | DESCRIPTION |
|------|-------|-------------------|-----------------------------|
| 31 | IC21 | 99-AAT33203 | LS-IC 74LS367 |
| 32 | IC22 | 99-AAT33209 | LS-IC 74LS374 |
| 33 | IC23 | 99-AAT33220 | LS-IC 74LS393 |
| 34 | CPU | 99-AAT34008 | CPU 7-80A |
| 35 | IC24 | 99-AAT32003 | TTL-IC 7404 |
| 36 | IC25 | 99-AAT32099 | TTL-IC 74367 |
| 37 | C1 | 99-AAT41023 | CAP, ELECTROLYTIC 16VB220 |
| 38 | C2 | 99-AAT41244 | CAP, FILM TDY-1H-104 |
| 39 | C3 | 99-AAT41302 | CAP, CERAMIC 22PF50V |
| 40 | C4 | 99-AAT41324 | CAP, CERAMIC 180PF50V |
| 41 | C5 | 99-AAT41330 | CAP, CERAMIC 330PF50V |
| 42 | C6 | 99-AAT41411 | CAP, CERAMIC 10000P50V |
| 43 | C7 | 99-AAT41436 | CAP, TANTALUM SSG35-1F |
| 44 | R1 | 99-AAT51749 | RES, CARBON 220 0HM 1/4W 5% |
| 45 | R2 | 99-AAT51253 | RES, CARBON 330 OHM 1/4W 5% |
| 46 | R3 | 99-AAT51265 | RES, CARBON 1K OHM 1/4W 5% |
| 47 | | | NOT USED |
| 48 | | | NOT USED |
| 49 | ROM 2 | 99-RH090402 | PROM (2732) RHO2 |
| 50 | ROM 3 | 99-RH090403 | PROM (2732) RH03 |
| 51 | | | NOT USED |
| 52 | ROM 5 | 99-RH090405 | PROM (2732) RH05 |
| 53 | ROM 6 | 99-RH090406 | PROM (2732) RH06 |
| 54 | ROM 7 | 99-RH090407 | PROM (2732) RH07 |
| 55 | ROM 8 | 99-RH090408 | PROM (2732) RH08 |
| 56 | ROM 1 | 99-RH090415 | PROM (2732) RH 01-01 |
| 57 | ROM 4 | 99-RH090414 | PROM (2732) RH 04-01 |
| 58 | IC26 | 99-AAT38003 | S-IC 74S04 |
| 59 | IC27 | 99-AAT32006 | TTL-IC 7475 |

CPU PC BOARD LAYOUT

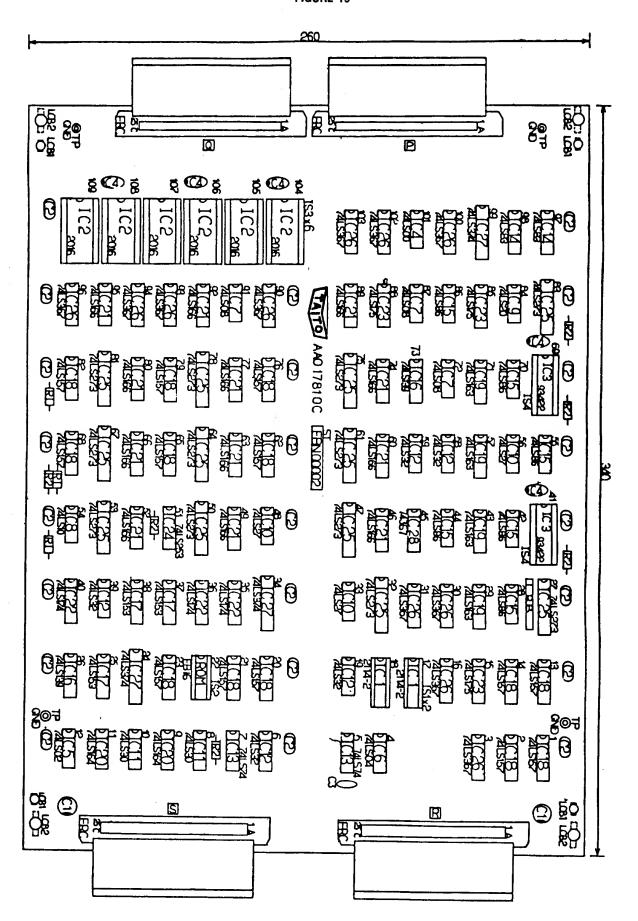


VIDEO BOARD

| ITEM | SYM | TAITO PART NO. | DESCRIPTION |
|------|------|-------------------|-------------------------------|
| 1 | | | VIDEO PC BOARD |
| 2 | LCB | 99-AA069557 | LOCKING CIRCUIT BOARD SUPPORT |
| 3 | FRC | 99-AAS00262 | FRC HARNESS ASSY 50P |
| 4 | IS1 | 99-AA055103 | IC SOCKET 18P |
| 5 | IS2 | 99-AA055286 | IC SOCKET 16P |
| 6 | IS3 | 99-AA055287 | IC SOCKET 24P |
| 7 | IS4 | 99-AA055999 | IC SOCKET 22P |
| 8 | TP | 99-AA056551 | TEST POINT |
| 9 | LCB2 | 99-AA069589 | LOCKING CIRCUIT BOARD SUPPORT |
| 10 | IC1 | 99-AAT32163 | STATIC RAM 2114-2 |
| 11 | IC2 | 99-AAT32178 | STATIC RAM TMM2016P |
| 12 | IC3 | 99-AAT32180 | TTL-RAM 93422 |
| 13 | IC4 | 99-AAT33001 | LS-IC 74LS00 |
| 14 | IC5 | 99-AAT33003 | LS-IC 74LS02 |
| 15 | IC6 | 99-AAT33005 | LS-IC 74LS04 |
| 16 | IC7 | 99-AAT33009 | LS-IC 74LS0 |
| 17 | IC8 | 99-AAT33011 | LS-IC 74LS10 |
| 18 | IC9 | 99-AAT33019 | LS-IC 74LS20 |
| 19 | IC10 | 99-AAT33024 | LS-IC 74LS27 |
| 20 | IC11 | 99-AAT33026 | LS-IC 74LS30 |
| 21 | IC12 | 99-AAT33027 | LS-IC 74LS32 |
| 22 | IC13 | 99-AAT33051 | LS-IC 74LS51 |
| 23 | IC14 | 99-AAT33059 | LS-IC 74LS83 |
| 24 | IC15 | 99-AAT33062 | LS-IC 74LS86 |

| | | TAITO | |
|------|------|-------------|-------------------------------------|
| ITEM | SYM | PART NO. | DESCRIPTION |
| 25 | IC16 | 99-AAT33092 | LS-IC 74LS139 |
| 26 | IC17 | 99-AAT33108 | LS-IC 74LS153 |
| 27 | IC18 | 99-AAT33112 | LS-IC 74LS157 |
| 28 | IC19 | 99-AAT33118 | LS-IC 74LS163 |
| 29 | IC20 | 99-AAT33119 | LS-IC 74LS164 |
| 30 | IC21 | 99-AAT33121 | LS-IC 74LS121 |
| 31 | IC22 | 99-AAT33127 | LS-IC 74LS174 |
| 32 | IC23 | 99-AAT33128 | LS-IC 74LS175 |
| 33 | IC24 | 99-AAT33163 | LS-IC 74LS253 |
| 34 | IC25 | 99-AAT33170 | LS-IC 74LS273 |
| 35 | IC26 | 99-AAT33203 | LS-IC 74LS367 |
| 36 | IC27 | 99-AAT33209 | LS-IC 74LS374 |
| 37 | IC28 | 99-AAT32099 | TTL IC 74367 |
| 38 | ROM | 99-EB090016 | PROM (74S287) EB16 |
| 39 | | | NOT USED |
| 40 | C1 | 99-AAT41023 | CAP, ELECTROLYTIC 16VB220 |
| 41 | C2 | 99-AAT41244 | CAP, FILM TDY-1H-104 |
| 42 | C3 | 99-AAT41324 | CAP, CERAMIC DT 203 180P |
| 43 | C4 | 99-AAT41436 | CAP, TANTALUM SSG35-1F |
| 44 | R1 | 99-AAT51757 | RES, CARBON 470 OHM 1/4W 5% |
| 45 | R2 | 99-AAT51765 | RES, CARBON 1K OHM 1/4W 5% |
| 46 | RB | 99-AAT55036 | RESISTOR BLOCK 1K OHM 8 ELEMENTS |
| 47 | ST | 99-FB070006 | PC BOARD STICKER FBN00002 |

VIDEO PC BOARD LAYOUT



GAME BOARD

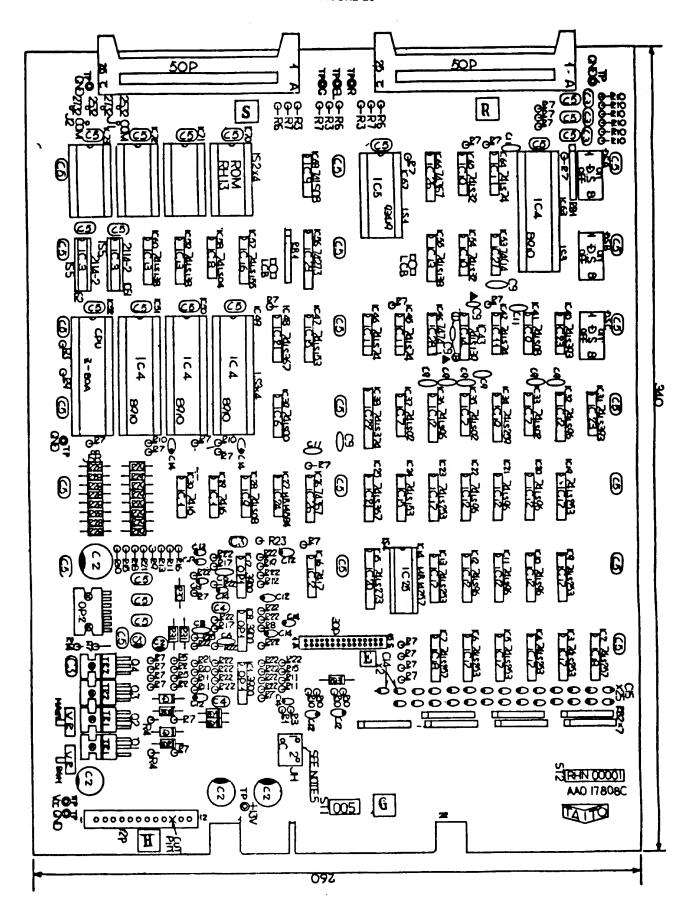
| <u></u> | f | TAITO | 1 |
|---------|------|-------------|-------------------------------|
| ITEM | SYM | PART NO. | DESCRIPTION |
| 1 | | | GAME PCB |
| 2 | IS5 | 99-AA055103 | IC SOCKET 18P |
| 3 | DS | 99-AA052566 | DIP SWITCH |
| 5 | 30P | 99-AA055160 | CONNECTOR PLUG HKP-30M |
| 6 | IS1 | 99-AA055169 | IC SOCKET 28P |
| 7 | 50P | 99-AA055310 | ANGLE PIN HEADER PS-50PA |
| 8 | IS2 | 99-AA055787 | IC SOCKET 24P |
| 9 | IS3 | 99-AA055812 | IC SOCKET 40P |
| 10 | IS4 | 99-AA055000 | IC SOCKET 22P |
| 11 | TP | 99-AA056551 | TEST POINT |
| 12 | LCB | 99-AA060557 | LOCKING CIRCUIT BOARD SUPPORT |
| 13 | TR1 | 99-AAT11040 | TRANSISTOR 25A423 |
| 14 | | | PAN HO SCREW M3X6 |
| 15 | | | NUT M3 |
| 16 | TR2 | 99-AAT11070 | TRANSISTOR 25D635 |
| 17 | | | PAN HO SCREW |
| 18 | | | NUT M3 |
| 19 | 0P1 | 99-AAT31011 | OP AMPLIFIER 1M3000 |
| 20 | 0P2 | 99-AAT31050 | OP AMPLIFIER MR3230 |
| 21 | | | PAN HO SCREW M3X8 |
| 22 | | | NUT M3 |
| 23 | IC1 | 99-AAT32033 | TTL-IC 7416 |
| 24 | IC2 | 99-AAT32049 | TTL-IC 7417 |
| 25 | IC3 | 99-AAT32163 | STATIC RAM 2114.2 |
| 26 | IC4 | 99-AAT32165 | SOUND IC AY38910 |
| 27 | IC5 | 99-AAT32179 | TTL - RAM 93410 |
| 28 | IC6 | 99-AAT33001 | LS-IC 74LS00 |
| 29 | IC7 | 99-AAT33003 | LS-IC 74LS02 |
| 30 | IC8 | 99-AAT33005 | LS-IC 74LS04 |
| 31 | IC9 | 99-AAT33009 | LS-IC 74LS08 |
| 32 | IC10 | 99-AAT33027 | TI (ONLY) 74LS37 |
| 53 | IC11 | 99-AAT33051 | LS-IC 74LS74 |
| 34 | IC12 | 99-AAT33070 | LS-IC 74LS96 |
| 35 | IC13 | 99-AAT33096 | LS-IC 74LS138 |
| 36 | IC14 | 99-AAT33097 | LS-IC 74LS139 |
| 37 | IC15 | 99-AAT33108 | LS-IC 74LS153 |
| 38 | IC16 | 99-AAT33110 | LS-IC 74LS155 |
| 39 | IC17 | 99-AAT33163 | LS-IC 74LS253 |
| 40 | IC18 | 99-AAT33164 | LS-IC 74LS257 |
| 41 | IC19 | 99-AAT33166 | LS-IC 74LS259 |
| 42 | IC20 | 99-AAT33170 | LS-1C 74LS273 |
| 43 | IC21 | 99-AAT33203 | LS-IC 74LS367 |
| 44 | IC22 | 99-AAT33209 | LS-IC 74LS374 |
| 45 | IC23 | 99-AAT33220 | LS-IC 74LS393 |
| 46 | CPU | 99-AAT34008 | CPU Z-80A |
| 47 | IC24 | 99-AAT36105 | CMOS MB14584 |
| 48 | IC25 | 99-AAT32005 | CUSTOM IC MB14257 |
| | · | | 4 |

| ITEM | SYM | TAITO PART NO. | DESCRIPTION |
|------------|------|-------------------|------------------------------|
| 49 | IC28 | 99-AAT32099 | TTL IC 74367 |
| 50 | IC27 | 99-AAT32003 | TTL IC 7404 |
| 51 | IC28 | 99-AAT32011 | TTL IC 7474 |
| 52 | IC29 | 99-AAT32151 | TTL IC 7427 |
| 53 | ROM | 99-RH090413 | PROM (2732) RH-13 |
| 54 | C1 | 99-AAT41019 | CAP, ELECTROLYTIC 16VB220 MF |
| 55 | C2 | 99-AAT41023 | CAP, ELECTROLYTIC 16VB220 |
| 56 | C3 | 99-AAT41238 | CAP, FILM TDY-1M-103 |
| 57 | C4 | 99-AAT41740 | CAP, FILM TDY-1H-223 |
| 58 | C5 | 99-AAT41244 | CAP, FILM TDY-1H-104 |
| 59 | C6 | 99-AAT41310 | CAP, CERAMIC 47PF 50V |
| 60 | | | NOT USED |
| 61 | C8 | 99-AAT41322 | CAP, CERAMIC 150PF 50V |
| 62 | C9 | 99-AAT41374 | CAP, CERAMIC 180PF 50V |
| 63 | | | NOT USED |
| 64 | C11 | 99-AAT41334 | CAP, CERAMIC 470PF 50V |
| 65 | C12 | 99-AAT41430 | CAP, TANTALUM SSG25-10F |
| 66 | C13 | 99-AAT41431 | CAP, TANTALUM SSG35-OR1F |
| 67 | C14 | 99-AAT41436 | CAP, TANTALUM SSG35-1F |
| 68 | C15 | 99-AAT41437 | CAP, TANTALUM SSG35 7R2F |
| 69 | R1 | 99-AAT51741 | RES, CARBON 100 OHM 1/2W 5% |
| 70 | R2 | 99-AAT51749 | RES, CARBON 220 0HM 1/4W 5% |
| 71 | R3 | 99-AAT51751 | RES, CARBON 270 0HM 1/4W 5% |
| 72 | R4 | 99-AAT51753 | RES, CARBON 330 0HM 1/4W 5% |
| 73 | R5 | 99-AAT51755 | RES, CARBON 390 0HM 1/4W 5% |
| 74 | R6 | 99-AAT51757 | RES, CARBON 470 OHM 1/4W 5% |
| 75 | R7 | 99-AAT51765 | RES, CARBON 1K |
| 76 | R8 | 99-AAT51779 | RES, CARBON 396 OHM 1/4W 5% |
| 77 | R9 | 99-AAT51781 | RES, CARBON 47K OHM 1/4W 5% |
| 78 | R10 | 99-AAT51789 | RES, CARBON 10K OHM 1/4W 5% |
| 79 | R11 | 99-AAT51796 | RES, CARBON 20K OHM 1/4W 5% |
| 80 | R12 | 99-AAT51797 | RES, CARBON 22K OHM 1/4W 5% |
| 81 | R13 | 99-AAT51803 | RES, CARBON 39K OHM 1/4W 5% |
| 82 | R14 | 99-AAT51775 | RES, CARBON 2.7K OHM 1/4W 5% |
| 8 3 | R15 | 99-AAT51811 | RES, CARBON 82K OHM 1/4W 5% |
| 84 | R16 | 99-AAT51817 | RES, CARBON 100K OHM 1/4W 5% |
| 85 | R17 | 99-AAT51823 | RES, CARBON 270K OHM 1/4W 5% |
| 86 | R18 | 99-AAT51825 | RES, CARBON 330K OHM 1/4W 5% |
| 87 | R19 | 99-AAT51827 | RES, CARBON 390K OHM 1/4W 5% |
| 88 | R20 | 99-AAT51829 | RES, CARBON 470K OHM 1/4W 5% |
| 89 | R21 | 99-AAT51833 | RES, CARBON 680K OHM 1/4W 5% |
| 90 | R22 | 99-AAT51837 | RES, CARBON 1M OHM 1/4W 5% |
| 91 | R23 | 99-AAT51733 | RES, CARBON 47 OHM 1/4W 5% |
| 92 | | | NOT USED |
| 93 | R25 | 99-AAT51845 | 22M OHM 1/4W 5% |
| 94 | | | NOT USED |
| 95 | | | NOT USED |

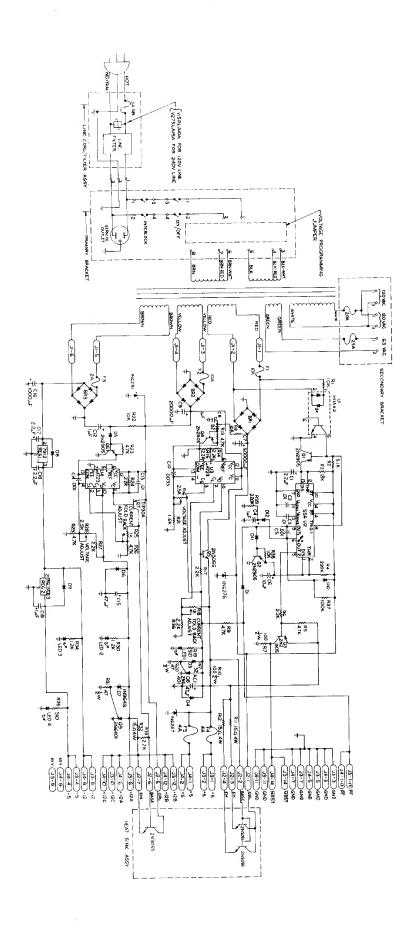
GAME BOARD

| ITEM | SYM | TAITO PART NO. | DESCRIPTION |
|------|-----|-------------------|---------------------------------------|
| 96 | R28 | 99-AAT51068 | 15K OHM 1/4W 5% |
| 97 | R29 | 99-AAT51969 | 30K OHM 1/4W 5% |
| 98 | R30 | 99-AAT51971 | 1M 1/4W 5% |
| 99 | R31 | 99-AAT51982 | RES, CARBON 1 OHM 1/2W 5% |
| 100 | VR | 99-AAT53041 | VARIABLE RESISTOR B-50K |
| 101 | RB1 | 99-AAT55036 | RESISTOR BLOCK 1K OHM 8 ELEMENTS |
| 102 | RB2 | 99-AAT55061 | RESISTOR BLOCK 10K 100 OHM 8 ELEMENTS |
| 103 | D | 99-AAT12009 | DIODE V03C |
| 104 | ZD1 | 99-AAT13025 | ZENER DIODE RD4.2EC |
| 105 | ZD2 | 99-AAT13026 | ZENER DIODE RD5.6EB |
| 106 | ZD3 | 99-AAT13028 | ZENER DIODE RD9A-M |
| 107 | ST1 | 99-EE070004 | HARNESS STICKER |
| 108 | ST2 | 99-RH070201 | PCB STICKER RHN00001 |

GAME PC BOARD LAYOUT



POWER SUPPLY SCHEMATIC 1 OF 1 FIGURE 21



E-4DEXTROM2 HD (E-D) ŒĐ Œ-M) Œ-50-Œ-7)-Œ (E-B) ŒE ŒÐ (E-9) Œ-H) (E-10)-EÐ7 ŒĐ Œ-ID Œ-12)-AS 2A DO SROME S Œ-B 7€ 0€ 98 90 (E-3)EXTROM1 FIGURE 22 Ao 30 00 \$ROM75 A11 EXCE (E-R) (E-S) AO 3B DO SROMBS AU A0 20 00 \$ROM4 \$ \$€ T®.44 15 J4 ₩ĢUÐ (E-2) EXPHR F ; FILM TATTALUM MOTE; CAP

ROM PC BOARD SCHEMATIC 1 OF

က **CPU PC BOARD SCHEMATIC 1 0F**

X1 8HHB 330 330

So4 3300 304

Bus

-0E6(E2) -0E5(B3) -0E3(C3) -0E3(C3) -0E2(C3) -0E1(F3) 150 RS 6 220 © 10R0 (96) 74367 T.P (F4) (FE) 74LS 74 7.P Z80-A OETO(B2) 0E9 (CZ) 27 H HRE c8 168P DE8 (D2) OZBUSAK HACT T.P O MREO 7415393 EG) OES. (EU) DET 19 1 19 1 . (8) 0E7(E2) ROM: AY IK 12 HATE 7676 Z **IORQ** P-a BANKSEL 1 15 SYN RĐ -17- W25 A1580 1 04 1 2 2 \$7,6655 \$4,635 \$2,000 \$1,000 \$ G1 62 # PA AI5 CHONA \$ (39) RESET T.P (P-R) 2 13 1 (E4 (E8) = 12 % Sans (54) 053 TIMERESET SRAMRO SP BEET +5V~ 1K FIGURE 23 330P 234 74367 x3 VIS PAT P - P4,7,7 1508 P. RESET P - 14 RESET 74367 x3 330P I 12021 13 04 Ğı 4 91 (F4) 0E4. (EK) OE9 = 24 wal1 (2-4)XP5)(85) (2-A5) ", §1" (66) A 2 192 4 191 6 190 10 574 47, 00 4 To Karl Line (F4) (E5. (E4): OEDO-T.P© WF (85) 96 08 (2-A5) (2-F1) GNDO-12 13 (3-A5) E B. (B7) WR (M) RD AIZ ADDRESS INSTRACTION DATA BUS PHO PA NOTE ALL ROMS (ROM1~ROMIO) 1 96 ° 84 12 PH5 (3-F1) SAIZ 13 SAIT 121 9 ARE PIN 24+57 WCD3-6 Least 1500 (3-C2) 7 (3-F1) (3-F1) 13 744574 CL 4502 - CDR 1-2 (+ c3) SRAMES PINIZ - GND

agg

-CDR3-6 (3-43)

+ PH3 (3-E1)

(B5XF4)

NOTE 743671X3.
ALL PM 16 PM 15 ARE 640
AS 79
AU 4 72
AU 7 AN 17
A

5 AU 7 AO // AA

HREA

ADDRESS BUS

+30 0530)20 pl con

BOOK DICOM

69 CE 18

(5) (E) (B)

(F) N 12

20 E 21

A0 DE 57

NOT USE

07303

(2732)3

Đ6

JÐ

JE

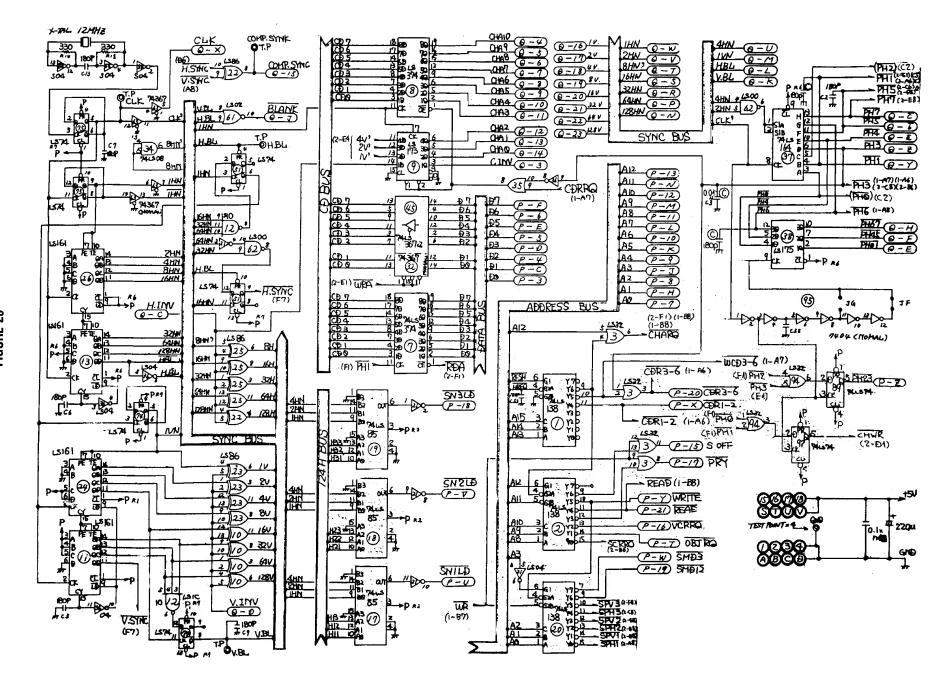
1/1/100

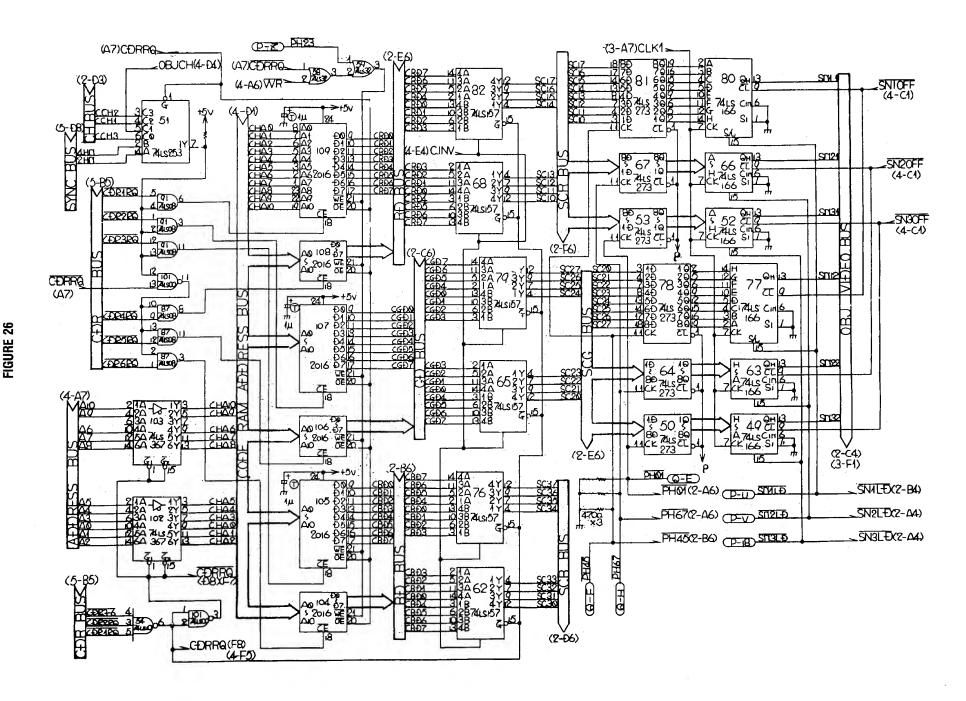
+50 € T.P

128v' 64V' CAT CAS CAS **(59)** (m) E +50 5 DV7 DV6 DV5 DV4 RDA (3-C5) **15**83 4 1457 1457 1558 1578 CA BUS →5°) wR SPV3 2HM(#6) 3-C)/(TIPO (3-A3) (3-FI) PH7 (1-c7) - 4HN (DL) 35)LS32 - 4v' - 2v' - /v' CAL CAL CAG (3-E5) (3) +50 5 (46) 4 57 4 57 1 5 53 +50 ₽V3 ₽V2 ₽V1 ₽V0 DV2 DV1 DV6 Ps 83 LEOS A A A (1-fr) PHT SPV2 -Œ R 61 0-3 0-4 (HWR (3-C1) (32A3) က (I-FI) PHE ZHN 2HN (BG) (FZ) 8 4HN (E6) (F2) 8H (C6) S BUS **CPU PC BOARD SCHEMATIC 2** 14 LS 374 Œ Œ ĐY2 7 A4 3 A3 0 A2 0 A1 93H. 93H. Œ SPVI FIGURE 24 (3-A3) (3-E1) PH3 13¥7 ③ -{} F (3) 96 95 ADDRESS BUS 8H (96) SC 5/2 SC 5/2 SC 5/2 SC 5/4 इनाउ-**\$367** 1 G 22 (3-A3) **→** PH5(3-F1) 196) 4HN __ 2HN __ 128H* SAA 14A3 SAA Œ B STUR 10 WE SCRRQ SPH2 \$00 2 \$00 1 \$00 1 G 2 -743(I-EI) 441' 321' 441' 841' (3-A3 £0.22 56.22 16.22 68.22 H13 Œ SAHI. PHI (3-EI) (3-A 3

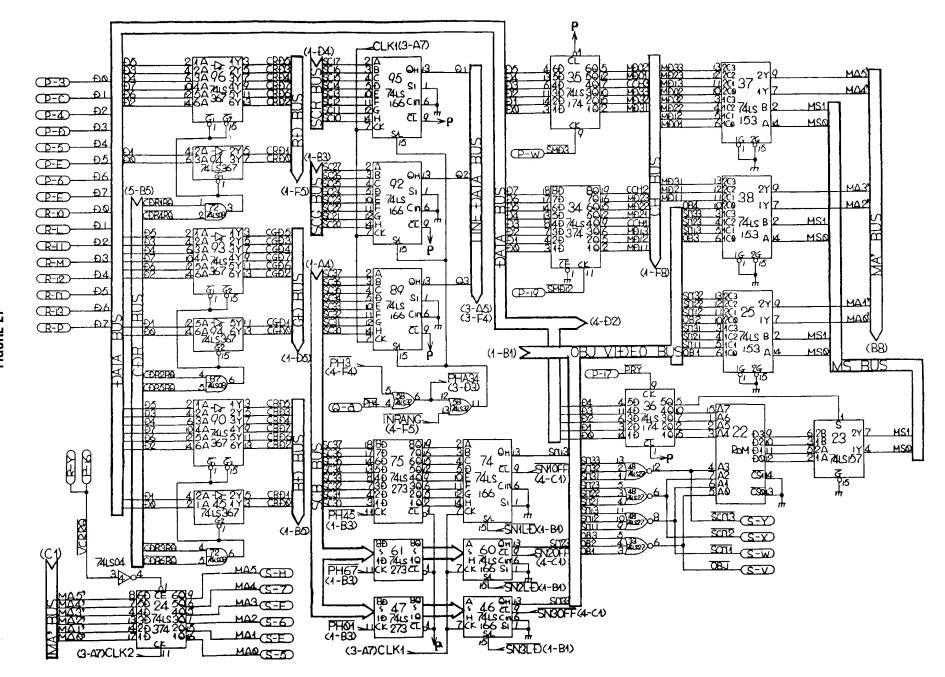
34

CPU PC BOARD SCHEMATIC 3 OF 3 FIGURE 25



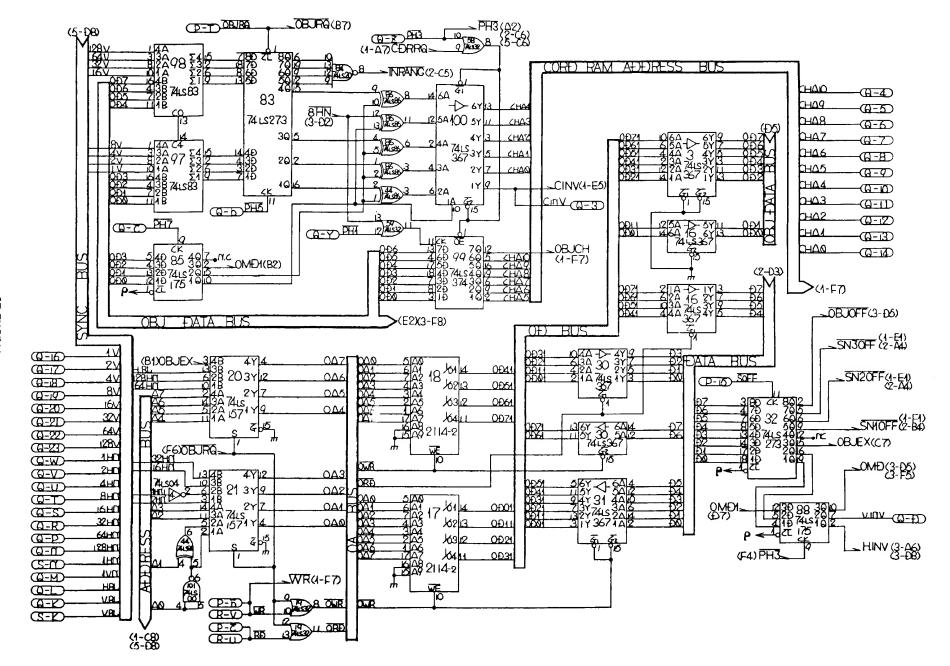


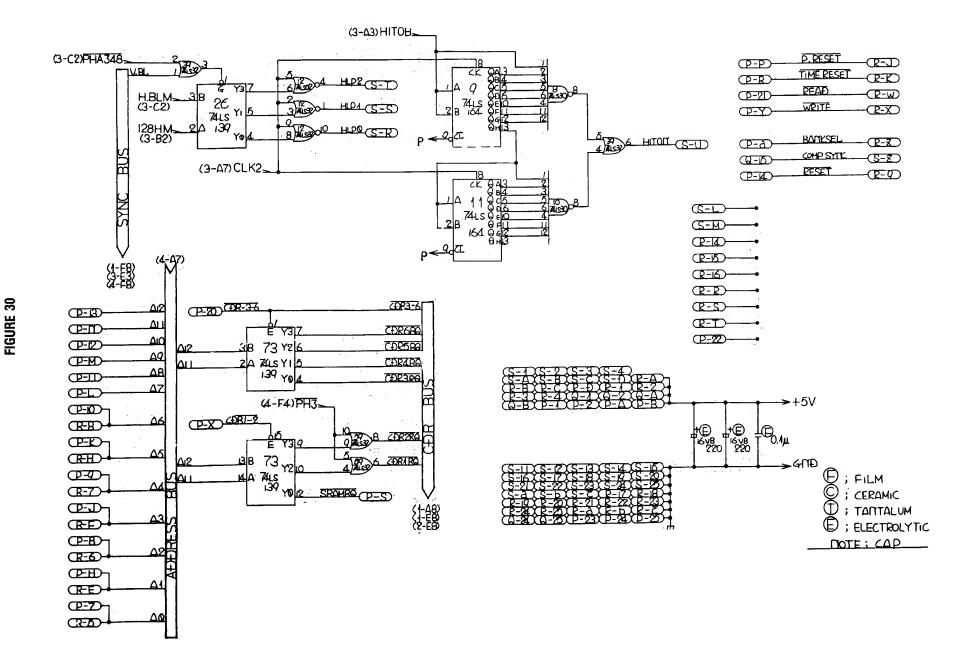
VIDEO PC BOARD SCHEMATIC 2 OF 5 FIGURE 27

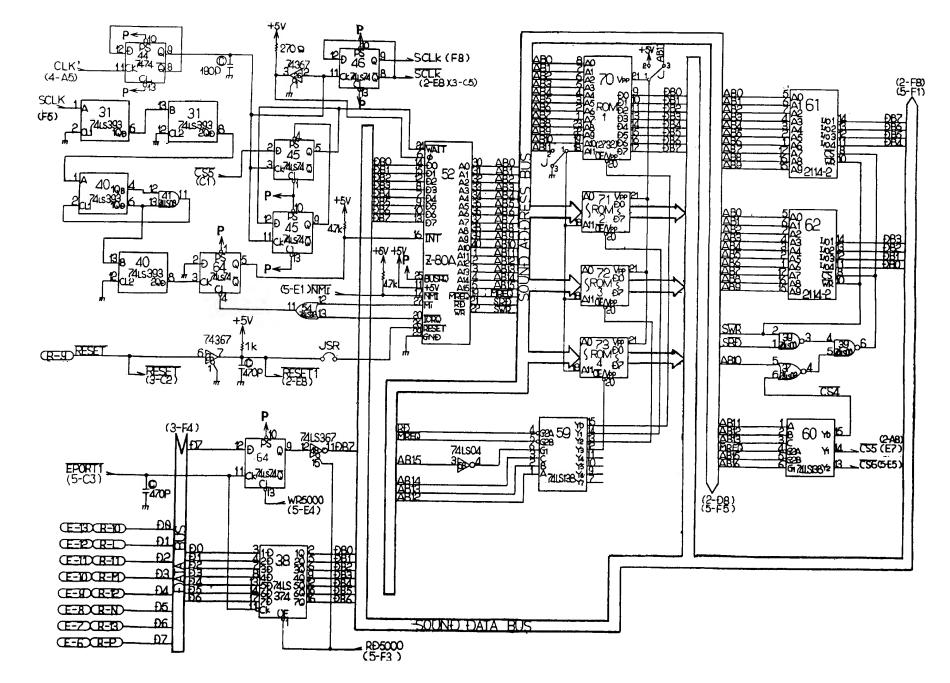


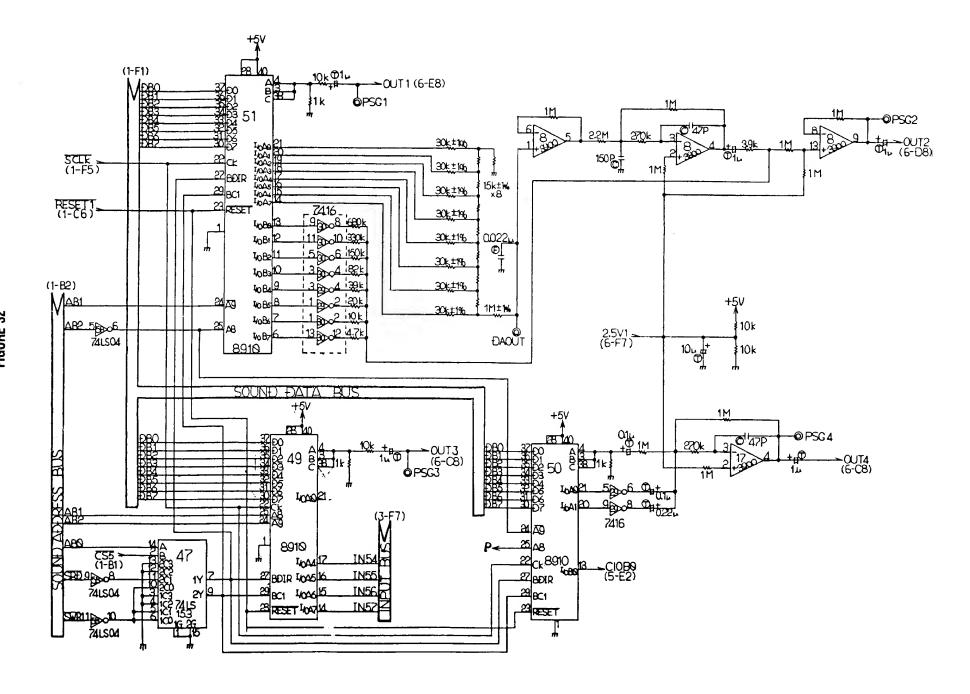
(C1) LNSE2-(M) MINITE (Δ7)CLK2 > (4-£5) M (4-B1)OMD > ENCL (E4) 12 45 15 13 15 14 15 15 16 175 74 LS 30 H 157 20 2 S 157 100 CSIP (B3)OBJH BLANK Œ-D OE 18 (5-08) Muud <u>(S-IO)</u> (D1) ENSLI PROBLEMCL2 £03 S £02 2 (B8) 1) 3 LNLD2 VIDEO PC BOARD SCHEMATIC 3 OF RB1K 741504 5 ADDENSET = †5V (2-C5)PHA34 (4-01) L OBJOFF: FIGURE 28 OMD<u>-</u> (4-81) H.INV= (4-Δ1) OF 11 (A7)CLK2-LNSL2(F3) (A6) (C5) 2|A7 10)42 1809, PHA348(5-F8) H.BLM(5-F8) 0E 18 93422 ^{A3} _128HM(5-E8) EAHM (S=9) 35HM (Z=Z) OBJH(E5) TEHM (2-8) (D1) [NL-D2: A74LS157 (E4) ENCL 2 (DI)ENSL1 (2-05) \(\sqrt{Q} K2(F2) (?-A8) (5-E7) ENSL2(C1) **OBJH** (X=X) HILLY (Q-C) 74c367×2 .HITOB (5-F5) (G-52) -H.INV(4-Δ1)

VIDEO PC BOARD SCHEMATIC 4 OF 5 FIGURE 29

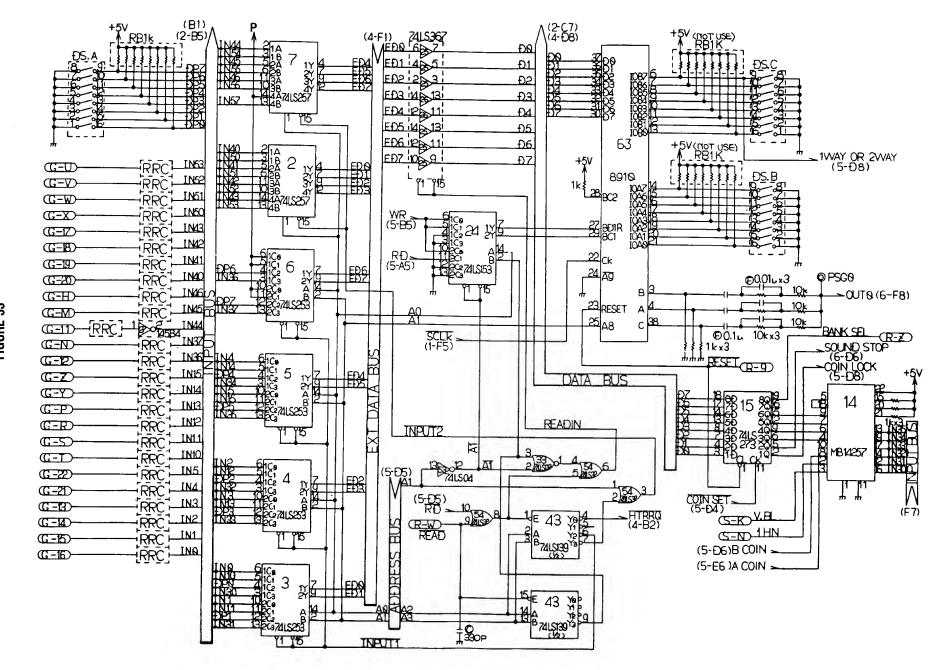








GAME PC BOARD SCHEMATIC 3 OF (FIGURE 33)



GAME PC BOARD SCHEMATIC 4 OF 6

